Sequence Listing

<110>	Susan Marie	Metcalfe							
<120>	Method of Inducing or Modulating Immune Response								
<160>	4	_							
<210>	1								
<211>	2728								
<212>	mRNA								
<213>	Homo Sapiens								
<400>	1								
ggtggctggt	tctgcgccgg	atccgggaga	ggggcgggcg	ccattgtgct	tcgctgccga	60			
ctgcatttcc	tcagtcacgg	gcctagaact	ccaaggagaa	aggcggcgaa	aaatctttaa	120			
	taaaccttca					180			
	gatgatgtct					240			
	atttagattg					300			
caccatttca	atctgcatgg	tatagtgaat	ctgagataac	tcagggagca	cgctcaagat	360			
	gcaacgggat					420			
	tgggagaaat					480			
	agttcctaga					540			
	gagagatttg					600			
atagtcaccg	aagtggtgat	ttcacaactt	catcatatgt	tcaagacaga	gttccttcat	660			
	agcaagacca					720			
ccacaaacca	ccaattgcct	tctgaacatc	agaccatact	aagttctagg	gattccagaa	780			
attctttaag	atcaaatttt	tcttcaagag	aatcagaatc	ttcccgaagc	aatacgcagc	840			
ctggattttc	ttacagttca	agtagagatg	aagccccaat	cataagcaat	tcagaaaggg	900			
ttgtttcatc	tcaaagacca	tttcaagaat	cttctgacaa	tgaaggtagg	cggacaacga	960			
ggagattgct	gtcacgcata	gcttctagca	tgtcatctac	tttttttca	cgaagatcta	1020			
gtcaggattc	cttgaataca	agatcattga	attctgaaaa	ttcttacgtt	tctccaagaa	1080			
tcttgacagc	ttcacagtcc	cgtagtaatg	taccatcagc	ttctgaagtt	cccgataata	1140			
	agcttctcag					1200			
	tcatagctct					1260			
gaaatacagg	accatggtta	tcttcctcac	ttagaaatag	atgcacacct	ttgttctcta	1320			
	agagggaaga					1380			
	ttttagaaga					1440			
	tgctgccaac					1500			
gtggctctac	atcagattcg	gctcaaggtg	gaagaaatac	aggaatatca	gggattcttc	1560			
	attccggttt					1620			
	agtagatatt					1680			
	tgcgccttca					1740			
	ctcagaagaa					1800			
	taatttgctg					1860			
accaagactg	tatgaaaaag	tggttacagg	ccaaaattaa	ctctggttct	tcattagaag	1920			
ctgtaaccac	ctgtgaacta	tgtaaagaga	agttggagct	taacctggag	gattttgata	1980			
ttcatqaact	acatagagct	catgcaaatg	aacaagctga	gtatgagttt	atcagctctg	2040			
gtctctacct	agtggtgtta	ttgcacttgt	gcgaacaaag	cttttctgat	atgatgggaa	2100			
	accaagcaca					2160			
	tctcgaaact					2220			
	tgcctaactt					2280			
	caattaaata					2340			
	aatgaatata					2400			
	=								

agtgttgctg aattaaa	att ctgctggact	ttttaacata	gcaaatccga	tgtttataaa	2460
ctggtaatca aaaaggt	ttt ttcttttagg	tgagtgggaa	agtattaccc	ttgttttaaa	2520
tatctaagca atgccta	tca acccttttt	gtgttatgat	tactgtagtc	atatttatga	2580
aaaaaggttt gtgtttt	act cttgctagtg	agaaaagtgg	gacaaaatat	acttttgaaa	2640
taaaatgcta tatggca	cct aattatttt	tcttttaaaa	tgccttaagt	tgcagtctca	2700
ttttgataat catttgc	ttc cagtgttt				2728

<210> 2 <211> 2720 <212> mRNA <213> Mus musculus

<400> 2

cqcatccqqa qqqqcqqccq ccattgtgct tcgtcgccga cttctctgcc ggtagcccga 60 gagccgagcc gagcccagcg aggaaggcgg cggcggtgtg gctgcggcga gcgcgacact 120 ccctgcagcg gagtgctcgg tggaagaggg aaaccttaag aatggagtct aaaccttcca 180 ggattccaag aagaatttct gttcaaccct ctggctcttt aagcactagg atggtgtctg 240 qaaacaqaqq aaccaqttta aatqattcat atcattctag agactcctcc tttagactgg 300 attctgaata tcagtctgca tcagcatcag cgtgtgcatc accatgtcag cctgcctggt 360 acagtgagtc tgagatacct cagggagcgc gggcacgagc acagacccag cagcgggatc 420 atgactcaaa gagacccaag ctttcctgta caaactgtgc atctacctca gctgggagga 480 acggtgggag tgggttaaat acagtgtcag attcttcttg gaggcatagt caagttccca 540 gatcttcatc aatggtactt ggttcatttg gaacagactt gatgagagaa aggagagatt 600 tggacaggag aagagagtcc tccatcagca atcttatgga ttataatcac cgaagtggtg 660 atttcacaac ttcatcatat gttcaagaaa gagttccttc ttcatattca cagggagcaa 720 gaccaaaaga gaatgcagtg agcactttac agttgaattc atcatccacc aatcaccaat 780 tqccttctqa ccatcaqaca gtaccaagtt ctagggactc cagtagaagt tctttcagat 840 cacatttttc tccaaqacaa tcaqaatctt ttcgcaacag ttcacatcct gcattttcat 900 atttttcaag tagaaatgaa actccaacta taagcaattc agaaaggggt tcatctcaga 960 gaccatatcg agaatcttct gacaatgaag gtaggcgtac aactaggaga ttgctgtcac 1020 ggatagette tageatgtea tetaettttt teteaegaag atetagteaa gatteettga 1080 atacaagatc tttgagttet gaaaattata ttteteegag aaeeetgaet teacagtete 1140 ggaataatgg aacctcctcg tcctctgacg tcagtgaggg cagggcagct gaagcatctc 1200 agggatttag atttcttagg cgaagatggg ggttgtcgtc gctcagccaa aatcatagct 1260 ctgaaccaga qqcaqaaaat tttaaccaag aatcagaagg tagaaattca ggaccatggt 1320 tgtcttcttc acttagaaat agatgcacac ctttgttctc gagaaggagg cgagagggaa 1380 gggatgagtc ttcaagaatg tctacgtcag atgtaccacc tagatctcat attttcagaa 1440 gagattcaaa tgaagtagtt catcttgaag cacagggtga ctcccttggg gctgctgcca 1500 accgaccaca agcatctgga gcgtcaagca gtgctgctgc aggtggctcc accccagagt 1560 tqcctcaqqg tggaagaaat ccaggactaa cagggattct tcctggctcc ttgttccggt 1620 ttgcagtccc accagcactc ggcagtaatc tggctgacaa tgtcatgatt actgtagata 1680 ttatcccttc tggttggaat tcaactgatg ggaaaaatga taaagctaaa agtgcacctt 1740 caagagaccc agaaaaactt cagaaaatca aagaaagcct ccttttagag gactctgatg 1800 atgaagaaga aggggactta tgtagaattt gtcagatggc agcagcgtca tcatctaatt 1860 tattgataga gccgtgcaaa tgcacaggga gcctgcagta cgtccatcaa gagtgtatga 1920 aaaagtggtt acaagccaaa attaattctg gctcttcatt agaggctgtg actacctgtg 1980 aactctgtaa agagaagttg caacttaacc tggaggattt tgatattcat gaactacata 2040 gageteatge aaatgaacaa getgagtatg agtttateag etetggtete tacetagttg 2100 tcttactgca cttgtgtgaa caaagctttt ctgatatgat gggaaataca attgaaccaa 2160 qcactcqtqt ccgatttatt aaccttgcaa gaactcttca ggcacatatg gaagatctcg 2220 aaacttcaga ggatgaattc tgaagaagat ggagaccata agagaatgct tgatattgcc 2280 taacttcatt taagaaaaaa aaaaaaaagg atgatctgtg aacatgttta ttaaaactgg 2340 caattaagta tggataattt catggggtaa tgcctagtag attaattgac tatacataaa 2400 atgaatata atatacat gtataaatgt aaatatata toattotoaa gtattgotga 2460 actgaaatto ttgagotgga cootttaaca ctggocagog aatotoatgt ttataatatg 2520 taatooaago attittoott ttggtgagtg ggaaagoatt accottgttt gaaatatota 2580 aacagtgoto atcaacttto ttotttgttg caattactgt agtoatattt atgggaaaaa 2640 aatgtttgtg tattagtoto ttgotagtga aaaaaagtoa gataaaatgt cottttgaaa 2700 taaaatgooa atggoacota

<210> 3 <211> 704 <212> Polypeptide <213> Homo Sapiens <400> 3

1 meskpsripr risvqpsssl sarmmsgsrg sslndtyhsr dssfrldsey qstsasasas
61 pfqsawyses eitqgarsrs qnqqrdhdsk rpklsctnct tsagrnvgng lntlsdsswr
121 hsqvprsssm vlgsfgtdlm rerrdlerrt dssisnlmdy shrsgdftts syvqdrvpsy
181 sqgarpkens mstlqlntss tnhqlpsehq tilssrdsrn slrsnfssre sessrsntqp
241 gfsysssrde apiisnserv vssqrpfqes sdnegrrttr rllsriassm sstffsrrss
301 qdslntrsln sensyvspri ltasqsrsnv psasevpdnr aseasqgfrf lrrrwglssl
361 shnhssesds enfnqesegr ntgpwlsssl rnrctplfsr rrregrdess riptsdtssr
421 shifrresne vvhleaqndp lgaaanrpqa saasssattg gstsdsaqgg rntgisgilp
481 gslfrfavpp algsnltdnv mitvdiipsg wnsadgksdk tksapsrdpe rlqkikesll
541 ledseeegd lcricqmaaa sssnlliepc kctgslqyvh qdcmkkwlqa kinsgsslea
601 vttcelckek lelnledfdi helhrahane qaeyefissg lylvvllhlc eqsfsdmmgn
661 tnepstrvrf inlartlqah medletsedd seedgdhnrt fdia

<210> 4
<211> 693
<212> Polypeptide
<213> Mus musculus
<400> 4

1 meskpsripr risvqpsgsl strmvsgnrg tslndsyhsr dssfrldsey qsasasacas
61 pcqpawyses eipqgarara qtqqrdhdsk rpklsctnca stsagrnggs glntvsdssw
121 rhsqvprsss mvlgsfgtdl mrerrdldrr ressisnlmd ynhrsgdftt ssyvqervps
181 sysqgarpke navstlqlns sstnhqlpsd hqtvpssrds srssfrshfs prqsesfrns
241 shpafsyfss rnetptisns ergssqrpyr essdnegrrt trrllsrias smsstffsrr
301 ssqdslntrs lssenyispr tltsqsrnng tssssdvseg raaeasqgfr flrrrwglss
361 lsqnhssepe aenfnqeseg rnsgpwlsss lrnrctplfs rrrregrdes srmstsdvpp
421 rshifrrdsn evvhleaqgd slgaaanrpq asgasssaaa ggstpelpqg grnpgltgil
481 pgslfrfavp palgsnladn vmitvdiips gwnstdgknd kaksapsrdp eklqkikesl

WO 2005/074973 PCT/EP2005/000934 4/4

- 541 lledsddeee gdlcricqma aasssnllie pckctgslqy vhqecmkkwl qakinsgssl
- 601 eavttcelck eklqlnledf dihelhraha neqaeyefis sglylvvllh lceqsfsdmm
- 661 gntiepstrv rfinlartlq ahmedletse def